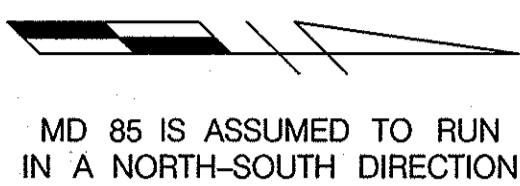


DRILL HOLES

DRILL HOLES

DRILL HOLES

REVISIONS



MD 85 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

CONSTRUCTION DETAILS

- A. INSTALL 6 FT. X 30 FT. LOOP DETECTOR ENCASED IN FLEXIBLE TUBING (3-6-3 WINDING)
- B. INSTALL ELECTRIC HANDHOLE
- C. INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT FOR DETECTOR SLEEVE
- D. INSTALL 3 IN. SCHEDULE 80, RIGID PVC ELECTRICAL CONDUIT (TRENCHED)
- E. USE EXISTING HANDHOLE
- F. USE EXISTING CONDUIT
- G. EXISTING BASE MOUNTED CABINET
- H. REMOVE EXISTING SIGN
- I. INSTALL NEW SIGN
- M. REMOVE EXISTING SIGN AND INSTALL NEW SIGN AS SHOWN

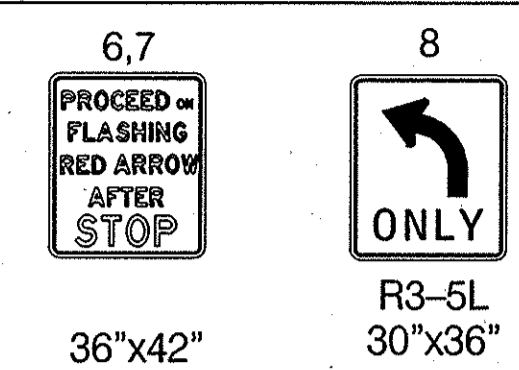
GENERAL NOTES

1. ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THE CONFLICT MAY BE RESOLVED.
2. INSTALL 2-CONDUCTOR (ALUMINUM SHIELDED) CABLE FOR EACH DETECTOR FROM THE PROPOSED HANDHOLE, THROUGH THE CONDUIT TO THE BASE MOUNTED CABINET.

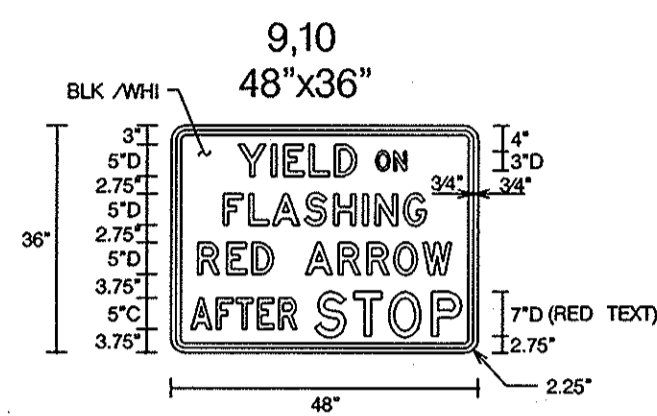
PHASE CHART

	1	2	3	4	5
	(R)	(Y)	(G)	(R)	(Y)
	(G)	(Y)	(R)	(G)	(Y)
PHASE 5	R	R	GA	G	GA
5 CHANGE	R	R	YA	Y	YA
5 CLEARANCE	R	R	RA	R	RA
PHASE 6	G	G	FLR	FLR	FLR
6 CHANGE	Y	Y	RA	R	RA
6 CLEARANCE	R	R	RA	R	RA
FLASHING OPERATION	FLY	FLY	FLRA	FLR	FLRA

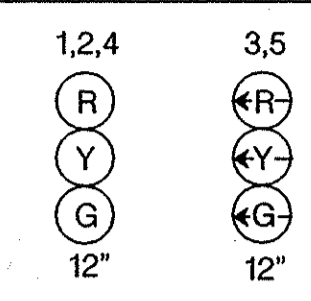
EXISTING SIGNS TO BE REMOVED



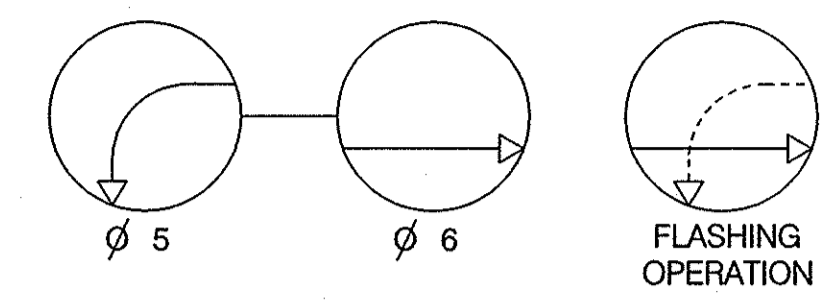
PROPOSED SIGNS



EXISTING SIGNALS



NEMA PHASING



PHASING NOTES:
1.) PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2.) PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.

TO BUCKEYSTOWN

RIGHT-OF-WAY LINE

MD 85

MD 85

TO FREDERICK

RAMP 'A'

RAMP 'B'

RAMP 'C'

RAMP 'E'

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 85 AND I-270 SOUTHBOUND ENTRANCE RAMP IN FREDERICK COUNTY, MD. MD 85 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A TWO-PHASE FULLY-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE (PROCEED ON FLASHING RED AFTER STOP) LEFT TURN PHASE FOR SOUTHBOUND MD 85.

PROJECT CONSTRUCTION

WORK WILL CONSIST OF INSTALLING A QUEUE DETECTOR IN THE LEFT LANE OF NORTHBOUND MD 85 NORTH OF THE INTERSECTION. WHEN ACTUATED, THE LEFT TURN PHASING WILL CHANGE FROM EXCLUSIVE-PERMISSIVE TO EXCLUSIVE.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY SHA AND INSTALLED BY CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
9572	24 SF	SHEET ALUMINUM SIGNS

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8028	1 EA	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8049	70 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80, RIGID PVC CONDUIT - TRENCHED
8054	20 LF	FURNISH AND INSTALL 1 IN. LIQUID-TIGHT, FLEXIBLE, NON-METALLIC CONDUIT
8062	1 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8064	24 SF	INSTALL OVERHEAD SIGN
8075	175 LF	FURNISH AND INSTALL 2-CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)
8080	900 LF	FURNISH AND INSTALL LOOP WIRE IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8081	250 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)

LEGEND OF UNDERGROUND AND OVERHEAD UTILITIES

AERIAL CABLE	A
ELECTRICAL	E
TELEPHONE	T
GAS	G
SEWER	S
WATER	W
CABLE TV	TV

TRAFFIC CONCEPTS, INC.
325 Gambrills Road
Suite E
Gambrills, MD 21054
(410) 923-7101
FAX (410) 923-6473
EMAIL TRAFFIC.CONCEPTS@COMCAST.NET

APPROVALS

TEAM LEADER

ASST. DIR. CHIEF

DIVISION

OFFICE DIRECTOR

REVISIONS

7-13-05

REVISE E.P. LEFT TURN PHASING TO PART TIME EXCLUSIVE

SHA NO. AT 7825185

TMZ

SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

TRAFFIC SIGNAL PLAN
MD 85 AND I-270 SOUTHBOUND ENTRANCE RAMP

SCALE 1"=20' DATE 10-1-97 CONTRACT NO. AW104ASK

DESIGNED BY N. LEARY COUNTY FREDERICK
DRAWN BY S. BLOSS LOGMILE 10008508.88
CHECKED BY D. DODA T.I.M.S. NO. G 830
F.A.P. NO. AC-STPG-000S(688)E TOD NO.

DRAWING NO. TS-3742A SHEET NO. 1 OF 1